

Date: Thu, 17 Feb 94 04:31:02 PST
From: Ham-Equip Mailing List and Newsgroup <ham-equip@ucsd.edu>
Errors-To: Ham-Equip-Errors@UCSD.Edu
Reply-To: Ham-Equip@UCSD.Edu
Precedence: Bulk
Subject: Ham-Equip Digest V94 #35
To: Ham-Equip

Ham-Equip Digest Thu, 17 Feb 94 Volume 94 : Issue 35

Today's Topics:

 Alinco battery packs
 Alinco DJ580 for sale
 Drake R-4 Crystal Substitute
Experience with Ray-O-Vac "Renewal" batteries - disappointment
 GLB Channelizer GLB400B
 HeathKit for sale
Help me find quartz for TV station in Novosibirsk
 HT Recs out there?
 IC-W2A problems ticking on 440mhz
 ICOM Radios, AQS and IF Filters
 Kenwood TR2500
 rotator ??? (2 msgs)

Send Replies or notes for publication to: <Ham-Equip@UCSD.Edu>
Send subscription requests to: <Ham-Equip-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Equip Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-equip".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Wed, 16 Feb 1994 17:54:02 GMT
From: newshub.nosc.mil!crash!jhawk@network.ucsd.edu
Subject: Alinco battery packs
To: ham-equip@ucsd.edu

Anybody have experience in breaking into and replacing cells in alinco
battery packs? In particular the EBP-10N for the DJ-160T.

Date: 16 Feb 1994 15:40:23 -0500

From: library.ucla.edu!europa.eng.gtefsd.com!howland.reston.ans.net!cs.utexas.edu!
swrinde!sgiblab!sgigate.sgi.com!olivea!news.bbn.com!petra!cass.ma02.bull.com!
cass.ma02.bull.com!not-for-mail@@
Subject: Alinco DJ580 for sale
To: ham-equip@ucsd.edu

For Sale Alinco DJ580 dual band HT
covers 2M and 440. Brand new, only used 10 times.
Comes with all accessories including quick charger.
All for \$450 or Best Offer.
Call John (WA1TLX) until 10pm EST @ 508 663 5744
(posted for John by Bob Tripi (N1KFV) who can accept
mail on Johns behalf)

Date: 15 Feb 1994 21:49:15 GMT
From: ucsnews!sol.ctr.columbia.edu!destroyer!newsxfer.itd.umich.edu!news.cic.net!
magnus.acs.ohio-state.edu!peri.acs.ohio-state.edu!rdixon@network.ucsd.edu
Subject: Drake R-4 Crystal Substitute
To: ham-equip@ucsd.edu

In addition to the FS-4 previously mentioned here, another small company used to
make an analog VFO kit that accomplished nearly the same thing. It plugs into a
crystal socket, and it contains a separate 500khz crystal calibrator. You use the
calibrator to set the VFO to the 500 khz segment you wish to receive, and then it
works just like a crystal. It runs from 12VDC. I think the guy who made them is
K9ZMU. They are of course not as stable as a crystal or synthesizer, but it is not
too bad, and certainly good enough for listening to short wave broadcast stations.

Note that there tuning ranges that do not work well even with the intended Drake
crystals because of IF mixing problems, and that problem is much worse if you
intend
to use a substitute device to control an associated T4X transmitter.

Bob W8ERD

Date: Mon, 14 Feb 1994 17:49:32 GMT
From: agate!howland.reston.ans.net!cs.utexas.edu!swrinde!emory!news-
feed-2.peachnet.edu!umn.edu!rabbit.cccs.umn.edu!RWH@ames.arpa
Subject: Experience with Ray-O-Vac "Renewal" batteries - disappointment
To: ham-equip@ucsd.edu

In article <dgfCL6L1t.Mx1@netcom.com> dgf@netcom.com (David Feldman) writes:
>From: dgf@netcom.com (David Feldman)

>Subject: Experience with Ray-O-Vac "Renewal" batteries - disappointment
>Date: Sun, 13 Feb 1994 21:01:02 GMT

>I purchased four "D" cells and their recharger. My application requires
>6VDC at about 5 amps continuous. When new, the cells decreased from 6V
>(series connected) output to about 4V output rather linearly during about
>30 minutes of loading. I recharged the cells as directed, and repeated the
>usage. After only 15 charge/discharge cycles, the battery reached 4V output
>after only 5 minutes of usage (again, a linear time/voltage discharge).
>I looked for one "weak" cell in the string, but each cell was similar to
>the others at any given point in time. I tried this test only on one set of
>4 cells purchased at the same time from a local retailer.

First, wouldn't gel-cells be a better bet for this type of application? It seems like a 30 amp-hr draw is a bit much to expect from D cell batteries.

I purchased a package of AA's and the 4 unit charger to see how well Renewals lived up to their hype. I also picked up a package of 4 Ray-O-Vac alkalines and three identical single AA flashlights. I loaded up the flashlights with a Renewal, an alkaline and a freshly charged Millenium nicad and ran each until the cells were exhausted. The regular alkaline lasted about 9 hrs, the Renewal quit after 6 hrs and the Millenium gave up the ghost at 2.5 hrs. A second test yielded almost identical results except the Renewal quit at 5:50.

I've since cycled the Renewal cell 10 times and the life is down to about 4 hrs. It seems to lose 10 to 15 minutes of life per charge. I'm not sure how a more realistic load would effect the outcome, but I would think that the deep discharge is probably the worst case for the Renewals. I called the 800 number in the coupon booklet and they are sending me a packet of technical materials on the Renewals.

After playing with them for a week or so now, they seem like they are ideal for applications where I would normally use alkalines, but I'm not about to replace the nicads in my Walkman or PRO-43 which get cycled fairly frequently. I have a phone and a couple of remote controls that eat AAA's for lunch that are going to get Renewals, and I have a friend that swears by them for use in his Sony Watchman where the voltage difference seems to make a fairly big difference.

--rick
NOLOX

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+-----+
| Richard Hoffbeck, Sr Analyst          e-mail: rwh@cccs.umn.edu |
| Prostate, Lung, Colorectal & Ovarian  cis: 72406,521         |
| Cancer Screening Trial                 voice: (612) 627-4151    |
| University of Minnesota                fax: (612) 627-4158      |
| 212 Ontario St SE, Suite 202          |
| Minneapolis, MN 55414                  |
```

+-----+

Date: 15 Feb 1994 17:47:15 GMT
From: gulfaero.com!vixen.cso.uiuc.edu!howland.reston.ans.net!usenet.ins.cwru.edu!
magnus.acs.ohio-state.edu!peri.acs.ohio-state.edu!rdixon@network.ucsd.edu
Subject: GLB Channelizer GLB400B
To: ham-equip@ucsd.edu

In article <2D5FC0FC@glenayre_smtp>, clee@vancouver.glenayre.COM (Lee, C.F.)
writes:

|>
|> I pick up a GLB400B channelizer and am wondering if anyone has any
|> information regarding this unit. I believe it is a synthesizer meant to
|> operate with crystal type 2m transceivers. I would appreciate any
|> information.
|>
|> Thank you.
|> CF Lee, ve7lcf

You are correct, that is exactly what it is. I have one in operation now myself.
Its output can be fed into a crystal socket of the 2M radio, and then it becomes
synthesized. But keep in mind that the GLBs were customized to work at whatever
frequency the crystals were, and that differs for various radios. Hence it may
not work in your radio without modification. It requires 12VDC to power it.

Bob W8ERD

Date: 16 Feb 1994 21:48:04 GMT
From: library.ucla.edu!europa.eng.gtefsd.com!howland.reston.ans.net!wupost!
bigfoot.wustl.edu!cec3!mne1@network.ucsd.edu
Subject: HeathKit for sale
To: ham-equip@ucsd.edu

I have a heathkit Sb-100 with matching speaker/power supply for
sale. I have no use for it since I live in a dorm, and no room for it.

It is in the box, with manual and everything.
I'll even throw in microphone, speech compressor, and Bilal Isotron for 10M
-t>b;Nw
leave me email or callsB:0e3F

Date: 16 Feb 94 13:50:16 GMT
From: nprdc!ihnp4.ucsd.edu!sdd.hp.com!spool.mu.edu!howland.reston.ans.net!pipex!
uknet!EU.net!news.eunet.fi!KremlSun!kiaelrelcom!newsserv@network.ucsd.edu
Subject: Help me find quartz for TV station in Novosibirsk
To: ham-equip@ucsd.edu

Hi, world!

Anybody know where can I find a few quartz resonators for
governmental TV station in Novosibirsk, because component plants in
Russia are stay or closed and component distributors demand minimal order
in \$1000.

Please, help me find quartz

Freq	Q-ty	
98,217 MHz	1	
48,972 ...	1	
49,986	1	
50,388	1	
50,791	1	
52,000	1	
52,201	1	
52,590	1	
53,368	1	
44,333333	1	
5,13550	8	<-- urgent & urgent
5,040	2	<--

98,217 KHz 2

Please, answer me directly by e-mail, because I don't follow
this newsgroups.

Thanks,

Alexandr N.MAINICHEV	/Telex: (64)412062 OCTET SU,
	/ BOX 50516
Dipl.Physic.	/ POST BOX 82, / main@msib.nsk.su
Director of	/ NOVOSIBIRSK-90, / Fax:(383 2) 35 68 11
"Agency MicroSib"	/ 630090, RUSSIA / Ph :(383 2) 35 44 28

Date: 14 Feb 94 22:09:30 GMT
From: concert!news.duke.edu!jdc2@rutgers.rutgers.edu
Subject: HT Recs out there?

To: ham-equip@ucsd.edu

Jesse,

I have a Kenwood TH78A, and I love it. I've also been out of the market for a year, but it was the best dual band radio I could find. I am also a college student, and I love having an HT. Try operating one with a speaker mic while riding a bike (with the HT in your backpack). That gets interesting.

The 78A might be a tad pricy (mine was upwards of 500 I think), but I also got some toys to go with it. I must admit a brand allegiance to kenwood, but that's just me. I know you could not go wrong with a 78, so look into it if you get the chance. On a side note, it looks so cool that you probably won't get any dorks saying "hey, is that a CB?"

I'll keep the post short - mail me if you want more info

N5SKQ (J. Carter)

J. D. Carter - jdc2@acpub.duke.edu

Date: Wed, 16 Feb 1994 10:19:12 -0500

From: sgiblab!swrinde!cs.utexas.edu!howland.reston.ans.net!europa.eng.gtefsd.com!
news.umbc.edu!eff!news.kei.com!uhog.mit.edu!nntp.club.cc.cmu.edu!news.sei.cmu.edu!
bb3.andrew.@@pacbell.com

Subject: IC-W2A problems ticking on 440mhz

To: ham-equip@ucsd.edu

ICOM W2A

On 440mhz transmit the red transmit LED pulses about once per second. If you watch the power output it pulses at the same time. If you transmit into a dummy load for 60seconds or so at full power so the back of the unit warms up then the problem goes away till it cools down. Eventually the transmit section fails.

Sound familure? I know of two radio for sure and I heard tell of 13 more. If your radio does this let me know I am trying to find a good fix for this common failure mode.

Date: 14 Feb 1994 13:44:57 GMT

From: olivea!spool.mu.edu!torn!csd.unb.ca!upeil.ca!UPEI.CA!seeler@ames.arpa

Subject: ICOM Radios, AQS and IF Filters

To: ham-equip@ucsd.edu

I would like to ask the readers two questions about the Icom radios - in particular - the IC275 and IC475.

First - Each has a FM IF filter labeled : CFW 455E. I would like to know what the band width of this filter is. I can copy 9.6 KB packet (Ko-23, U0-22) reasonably well - but was wondering if I should consider replacing it with a filter with better pass band characteristics.

Secondly: Can anyone expand on the term " Amateur Quinmatic System " That Icom uses to describe the AQS port on the rear of each radio. I am aware of the pin information - but was wondering to what use I can put these ports to other than 9.6 Kb hookups.

Thanks for any information you may be able to provide me in respect to these questions.

73 de Dave, VY2DCs
Internet: Seeler@UPEI.CA

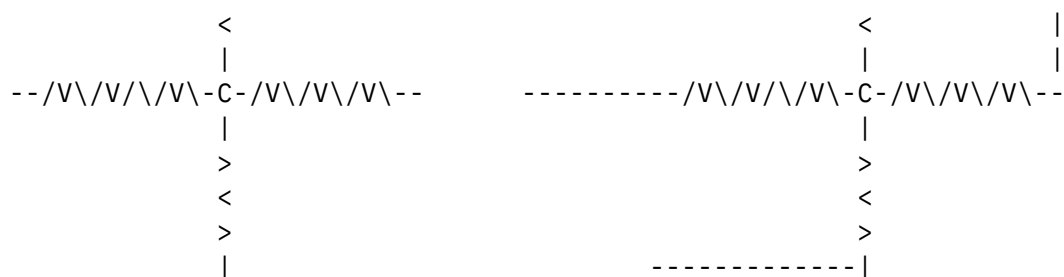
Date: Wed, 16 Feb 94 22:31:41 GMT
From: mnemosyne.cs.du.edu!nyx!jsteinhu@uunet.uu.net
Subject: Kenwood TR2500
To: ham-equip@ucsd.edu

Does anybody have any information about the Kenwood TR2500, I need to find out about it and don't even know what band it is. :)
ANY information would help a lot.
Thanks de N1MAM
--
jsteinhu@nyx.cs.du.edu

Date: 15 Feb 94 15:28:12 GMT
From: yuma!galen@purdue.edu
Subject: rotator ???
To: ham-equip@ucsd.edu

In article <QhLyo0y00YUoApKUE4@andrew.cmu.edu> Chris Beasley <cb1p+@andrew.cmu.edu> writes:
>Hey folks, looks like it's time to consult the net.wisdom on this one.
>I have an old (circa 1960) Channelmaster antenna rotator and a page
>of documentation that includes the rotator and the controller. From
>the schematic, it appears that the rotator and controller are just a
>pair of 90degree windings at about 8 ohms each that are connected

<	<
>	>



Whew, that's a bitch! I am not gonna get the whole schem. this way.
how about if I just elaborate verbally....

The rotator on the right appears to have four windings connected into two that are not connected in the center, thus forming two 90 degree windings. The two ends are commoned to produce the line I call "common" going back to the controller. The other two lines going back to the controller are the two winding power lines.

There is something in the controller that is the same that I am calling the control transformer for lack of a better term. There is also a transformer hooked up to 120VAC with two secondaries, a switch (probably for direction sense) and a capacitor.

If this is all still too confusing I can try to enter more of the schems.

What I am wonderign is, how to control this rotator. Eventually I would like to hook up to my computer but for now I would be happy to have a box with compass points and a dial on it. I have one of those actually but it seems to be the wrong kind. It has four wires to connect to for one thing and has a solenoid that I think is supposed to move a compass needle when pulses come back from the rotator. It doesn't work with my rotator any way I have tried to hook it up.

Can anybody help me with this? Tell me what kind of rotator I have and what kind of controller I need? Where to get one? Any additional info will be appreciated!

Thanx in advance and 73!
Chris
N3PDG

End of Ham-Equip Digest V94 #35
